

I Claim:

sub  
B.1

1. A sanitary absorbent article comprising:  
an upper layer pervious to liquid;  
a lower layer impervious to liquid;  
a transfer layer; and,  
an absorbing core having an upper part and a lower part, said core further comprising an absorption sheet and a superabsorbent material adhered to an inner surface of the sheet, said sheet consisting essentially of a wet laid paper and comprising two opposite longitudinal sides, each said longitudinal side having been bent onto the inner surface.
2. The absorbent article according to claim 1, wherein the absorbing core is embossed and perforated.
3. The absorbent article according to claim 2, wherein the absorbing core comprises a plurality of elevations on its surface, the elevations having an essentially triangular profile wherein one side has a gradual elevation and one opposite side has an abrupt elevation, the side having an abrupt elevation being positioned essentially parallel in relation to the longitudinal axis of the absorbing core.
4. The absorbent article according to claim 3, wherein the absorbent core comprises 8 to 15 elevations per  $\text{cm}^2$  both in the upper part and in the lower part.
5. The absorbent article according to claim 2, wherein the absorbing core comprises 2 to 15 perforations per  $\text{cm}^2$  both in the upper part and in the lower part.

6. The absorbent article according to claim 1, wherein the superabsorbent material has an absorbency under load value of at least about 24 ml saline per gram of superabsorbent material.

5 7. The absorbent article according to claim 1, wherein the superabsorbent material has a porosity of at least about 0.15.

8. The absorbent article according to claim 1, wherein the superabsorbent material has a Performance under Pressure capacity value of at least about 23 g/g under a confining pressure of 0.7 psi.

10 9. The absorbent article according to claim 1, wherein the superabsorbent material has a Saline Flow Conductivity value of at least about  $30 \times 10^{-7} \text{ cm}^3 \text{ sec/g}$ .

15 10. An absorbent core for use in a sanitary article, said core having an upper part and a lower part and comprising an absorption sheet and superabsorbent material, the superabsorbent material adhered to an inner surface of the sheet, said sheet consisting essentially of wet laid paper laid paper and comprising two opposite longitudinal sides, each said longitudinal side having been bent onto the inner surface.

20 11. The absorbent core according to claim 10, wherein the absorbent core is embossed and perforated.

25 12. The absorbent core according to claim 11, wherein the absorbent core comprises a plurality of elevations its surface, the elevations having an essentially triangular profile wherein one side has a gradual elevation and one opposite side has

an abrupt elevation, the side having an abrupt elevation being positioned essentially parallel in relation to the longitudinal axis of the absorbing core.

13. The absorbent core according to claim 12, wherein the absorbent core comprises 8 to 15 elevations per  $\text{cm}^2$  both in the upper part and in the lower part.

14. The absorbent core according to claim 11, wherein the absorbent core comprises 2 to 15 perforations per  $\text{cm}^2$  both in the upper part and in the lower part.

15. Method of manufacturing an absorbing core for use in a sanitary absorbent article, said method comprising the steps of:

- jetting adhesive material on a paper sheet of the type "wet laid;
- applying superabsorbent material onto the adhesive material;
- bending the paper sheet thereby forming said absorbing core; and,
- embossing and perforating the absorbing core.

16. The method according to claim 15, wherein said embossing step creates a plurality of elevations on the surface of the absorbing core, the elevations having an essentially triangular profile wherein one side has a gradual elevation and one opposite side has an abrupt elevation, the side having an abrupt elevation being positioned essentially parallel in relation to the longitudinal axis of the absorbing core.